



THE OREGON TUALATIN VALLEY AMATEUR RADIO CLUB NEWSLETTER

AN ARRL SPECIAL SERVICE CLUB

THE PREZ SEZ

BY GREG, W7AGQ

I was sorry to miss the August meeting. Because of my work schedule, the only time I could take a vacation with my family was the week of the OTVARC meeting.

While you were gathering at the Elk's Lodge, I was visiting the Amateur Station at Expo" 86 in Vancouver, British Columbia.

UE7EXPO is manned (or womaned, UE7YL was there) by hams from the greater Vancouver area. It has new ICOM equipment from 160 meters through satellite. All transmitters and receivers are built into operating consoles. There is even a colorful video display of a computer satellite locator program.



While I was there a number of hams dropped by and received "eyeball" QSL cards, brochures on the station and the nets and services available in Southwest B.C. Unfortunately, UE7EXPO does not get out well because its antennas are located underneath the teflon sails that form the roof of the building.

As a fellow ham, I enjoyed the display and station. I was disappointed, however, that the amateur radio story was not better presented to the public through signs, banners or brochures.

If you plan to visit Expo "86 be prepared for long lines and lots of waiting. But be assured it is worth it. The fair is large, clean and extremely well done. It is exciting and a real cultural and educational experience. Above all, it's just plain good fun.



Remember, UE7EXPO is located in the Canadian Pavilion

which is the large, sail topped building on the bay a couple miles north of the main fair site. I was

told to have my license available to show Canadian Customs at the border. I offered, but the inspector was more interested in whether we had pets or firearms, and how long we were going to stay.

On another subject, the Board voted to have the President appoint a "Blue Ribbon Committee" to make recommendations on possible future sites for Field Day. I appreciate and thank those of you who have volunteered to serve.

There are many people who have the requisite expertise, leadership and respect to act for the club. I have, however, acted to keep the committee small in hopes that convenient meeting times can be found and a consensus reached.

The following members will be on the site committee: Chairman, Jeff, K7JF, N7BIJ, Warren, K2TT, Randy, KA7NPN, Dee and WB6SHR, Paul. Their charge is to investigate options and report their findings and recommendations. Input will be solicited from a series of committee meetings which will be open to all. While we normally *don't* conduct business at our club meetings I want to ask for your direction. At the September meeting we should decide the procedure to be used once the committee report comes to us. Should the Board make the final decision, or do we put it to a vote of the general membership?

73 (and 88 where appropriate) W7AGQ

* * * FLASH * * *

BY GREG, W7AGQ

According to the ARRL, as of the filing deadline, the candidates for Northwest Division Director are Rush Drake, W7RM, Mary Lewis, W7QGP.

Candidates for Vice Director are Bill Shrader, W7QMU and Bradley Wells, KR7L.

This list is final; no other candidates are allowed as per ARRL, Newington at 11:30AM PDT, August 21, 1986.

LORNA'S LOOKOUT

EDITORIAL BY LORNA, KA7RFD



I've been amazed this Summer at the wonderful way we have had so much exposure; so many complimentary things said about ham radio and our club in particular. As an example, 4,000 runners couldn't thank us enough for our assistance at the Hood

to Coast relay. Many, many of our members have volunteered at various events this year. Still to come is Beaverton Good Neighbor Days where a major sector of the public attended last year.

A sad note in our last issue was that both Portland Radio and Antronics are no longer able to display the ham gear that is new and current because of cost. Is it really beneficial to save a couple of bucks by sending to the mail order companies? Some of us must think so.

I notice over the past few issues that we make mention of the same members month after month. What are the rest of you doing? Please let us know and don't forget our "Letters to the Editor" column.

'Til the next time.

MY TWO BITS WORTH

EDITORIAL BY JEFF, K7JF

Now that we have put the September Newsletter to rest, I can honestly say that this has got to be the toughest one to put together yet.

We really do need your articles; as brief as they may be, or as long-winded. Our "inventory" of future articles had been pretty well depleted. You don't know how much we appreciate our regular columns, but there have got to be members out there who could write on topics such as DX, VHF, Packet, Homebrew, Traffic, Basics for Novices, Contests, Ragchewing, Product Reviews, Book Reviews, Audio/Video Reviews, etc, etc, etc ... get my point? You might be surprised how easy it is to sit down and write a short article on your QSO with the ZL or XU last night. We're a fairly casual editorial staff, and we promise not to mark up your article like your high school grammar teacher.

It still takes us about 40 hours to put the Newsletter together. Those hours actually could be reduced if we had some more interesting pieces to add to our "jigsaw puzzle." How about giving us a hand with the pieces?

Thanks for your continued support!



FOR SALE: Gonset 101 Linear Amplifier 1200 Watts with complete set of extra tubes. Excellent condition. \$150.00. Call Don, N7DDK, 357-6638.

FOR SALE: Two Meter HTs; Kenwood TR-2400 \$175.00 and Icom IC-02AT \$250.00. Both have leather cases, chargers, manuals, Larsen ducks and more. Call Jeff, K7JF, 297-7965.

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The OTUARC Newsletter is published monthly by the Newsletter Committee of the Oregon Tualatin Valley Amateur Radio Club, Inc. The opinions, views and recommendations of its contributors are not necessarily those of the Club, its officers, advertisers or Newsletter Committee.

Articles may be submitted to PO BOX 25545, Portland, Oregon 97225-0545. Cutoff date is the 20th of each month. Letters to the Editor must be signed and authors will be verified.

Lorna Campbell, KA7RFD Editor-in-Chief
Jeff Freedman, K7JF Technical Editor

NEW MEMBERS CORNER

BY KATHRYN, KA7UMB

Warm welcome to our newest OTVARC members! Mike J. Ault, NU7F (formerly KU5C), Extra, and his wife Penny moved from Dallas, Texas three years ago. They did a blind spin with the map and the finger landed on Oregon. Although both are busy working, Mike considers himself "between bookings" at the moment. He is a Thousand Trails member, an ARRL Member and has photography and martial arts as hobbies.



Calvin Culbertson, W7SAN, Advanced, and his wife Roselia live in Mehama (east of Salem). He is a manager with People's Telephone Company in Lyons where he has worked for 22 years. An ARRL member, Calvin is interested in SSB and VHF/UHF. He did not list any hobbies, but I know he was out mowing the lawn when I talked with Roselia!

John Liebenrood, K7RO, Extra, is married to Joan. He is an ARRL member and listed a variety of interests including SSB, CW, Packet, UHF/UHF, DX, Experimenting and Computers. He listed hobbies of waterskiing and backpacking. Must be busy as I was unable to contact him by press time.

Lu Ra Walmsley, W3WUU, Technician, and his wife Betty were visiting at our August meeting and joined not only for 1986, but has already paid dues for 1987. They are traveling all over as he is retired from Westinghouse. Their home is in Ferndale, Maryland. Although they may have a future problem attending all our meetings, we sure did enjoy their company. Come on, Betty, we know you can get your license too!

Again, we extend a warm welcome to OTVARC.

TRIVIA TREK RESULTS

Congratulations to Susan, N7EPE winner of the Trivia Trek with eight correct answers. Susan wins dinner at the Elks in September. Answers are:

- 1A. W7GWU
- 1B. 1948
- 1C. Poldhu, Cornwall
- 1D. 25%
- 2A. Pittsburgh, PA
- 2B. W7UIF
- 2C. Heinrich Hertz
- 2D. 7%
- 3A. Lee de Forest
- 3B. W4RA
- 3C. 1901
- 3D. Sir John Fleming

JACKETS

BY KATHRYN, KA7UMB

Brrr. Cold weather in on the horizon. Time to order your OTVARC jacket!! It takes only a month to receive (as long as three orders are placed), so get your order in at the next meeting including type of jacket, size, your name and call sign.



Warm-up
(windbreaker) \$21.25

Kasha (light
lining) \$24.75

Pile (heavy
lining) \$31.90

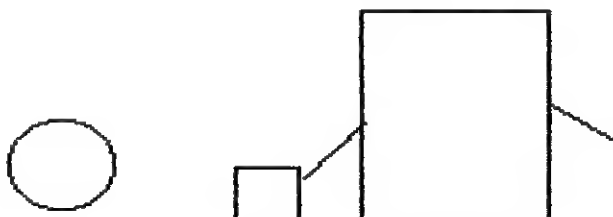
Adult sizes:

Small	34-36
Medium	38-40
Large	42-44
X-Large	46-48
XX-Large	50-52 (Add .75)
XXX-large	54-56 (Add \$1.50)
XXX-Large	58-60 (Add \$4.00)

Children sizes are also available.

SIC HUMOR

BY AL, WB7SIC



But Mama, it only eats peanuts.

FOR SALE: Hy-Gain TH3 MK3 tribander with Ham II Rotator. \$150.00. Call Bob, WB7DWD, 629-5676.

TELEPHONE (503) 223-2228

KX7Y

STAN WEINSTEIN

ATTORNEY AT LAW

SUITE 522 BOARD OF TRADE BUILDING
310 S. W. FOURTH AVENUE
PORTLAND, OREGON 97204

BOARD MEETING MINUTES

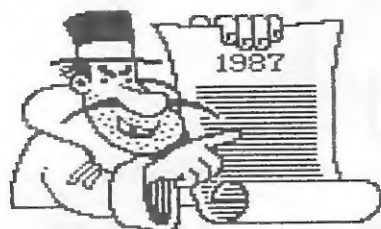
The OTVARC Board of Directors met on August 5 to resolve a number of issues. All members were present with the exception of N7CZY.



There was a consensus reached that alcoholic beverages would continue to be provided at various club functions, however, the keg, refrigerator or other source would be strictly monitored at all times by those in attendance.

In light of the varied opinions at the July meeting, it was decided the Club President would appoint a five-person committee to study the Field Day site issue. Discussion centered on an objective review of alternatives, including our present location, through the use of a grading sheet. The subcommittee will determine variables, evaluate each site and report their findings with an eventual recommendation to the Board. Members are encouraged to submit site suggestions to the committee for review.

There was considerable discussion regarding the financial results of the 1986 Sea-Pac Convention. Although a small "profit" was made, there were a number of cost reduction items to be considered for future events. The Board passed a motion for OTVARC to sponsor the 1987 Sea-Pac Convention; date scheduled for the last weekend in May, 1987. The Board also passed a motion directing the Club President to discuss a new formula for the distribution of "profit" with the Seaside group.



Director Mary Lewis, W7QGP will present the Club with its certificate on Friday, August 8.

The Board passed a motion to allocate \$50.00 for two booths at Beaverton Good Neighbor Days, September 12-14.

Newsletter Editor Lorna, KA7RFD brought up the need for increased advertising income to better support costs of production. The Board passed a motion to continue funding the Newsletter with the condition that advertising be solicited on an ongoing basis.

Greg, W7AGQ lead a discussion regarding smoking at club meetings. Based on a great number of comments, there is an apparent problem due to poor ventilation, location of smoking tables, etc. A consensus was reached

such that smoking tables will be restricted to the East wall and rear section of the dining room. All smokers are asked to please cooperate in maintaining these areas.

The Board passed a motion to allow Al, WB7SIC to sell the Club's Kaypro computer for the best possible price.

There was discussion on a number of other topics including receipt of an NSF check from a new member, progress on a 1987 membership renewal computer program and a reminder that elections are upcoming; this year lead by Geno, KA7KBH.

There were open member comments from WA6KLA and K7WWG, both on possible crab feeds/pool parties.



As mentioned above, Division Director Mary Lewis was to have presented the Board with a Certificate of Special Service Club status on August 8. The Board met (for dinner, thanks to Neil, WA6KLA), however, Mary was a no show due to the Tacoma Grand Prix. In Mary's absence, the Board further discussed criteria for the Field Day subcommittee. Greg confirmed his intent to appoint the five members by the August club meeting. Details to follow.

For the benefit of those newcomers to the Club, the Board of Directors meets at least once every calendar quarter to transact club business. Any recommendations or referrals to the club are then presented at regular or special club meetings in accordance with the club Bylaws. By running the club in this manner, we are able to greatly reduce the business discussed at our meetings. Members are always welcome to attend Board meetings as announced.

1986 OTVARC Officers

President: Greg Milnes
Vice President: Willis Ranes
Secretary: Jeff Freedman
Treasurer: Randy Stimson
Trustee: Warren Knight
Trustee: Linda Cereghino
Trustee: Randy Cobb
Trustee: Dee Lynch
Trustee: Al Berg

W7AGQ
N7DZR
K7JF
K27T
N7BIJ
N7CZY
KA7HJT
KA7NPN
WB7SIC

Meetings are held on the SECOND Wednesday of each month at the Elks Lodge, 3500 S. W. 104 Avenue, Beaverton, Oregon.

BEAVERTON DAYS

BY LORNA, KA7RFD

A Beaverton Good Neighbor Days Festival will be held on September 12, 13 and 14. Again, OTUARC will take an active role in public relations and service.

The location is Schiffler Park (on SW Berthold between Erickson and Menlo Drive - just south of Beaverton High School). Hours are 6PM-10:30PM on Friday, 11AM-10:30PM on Saturday and 11AM-6PM on Sunday.

The Public Relations part. We'll be using the OTUARC trailer equipped with HF gear and a tower and beam suitable for all bands. We'll be using two separate booths this year; our station and an adjacent area where we'll have an OTUARC member available to answer any questions in general about ham radio, specifics about our club, give out ARRL brochures, etc. Last year 50,000 people visited the Fair; we were able to demonstrate our capabilities during the Mexican earthquake



Apart from the HF gear in operation at all times, we'll have a Two Meter base station and will run the Portland Area ARES net from the booth on Friday evening.

With last year, we will again be in conson with the Police, First Aid tent and announcers at the P.A. system in helping to round up lost kids (or should that be parents) and generally making ourselves useful.

Remember your handheld if you're planning to work the watch, which will give you an excellent opportunity to patrol the grounds. Other exhibits range from craft stalls, food of all types, games, beer and wine garden, concerts and parade on Saturday morning. It's really a fun-filled event where you can bring your family and still have a chance to help the club with your presence. Sign up sheets will be available at the next meeting.

Please wear your red OTUARC jacket, tee-shirt, hat or, at least, your OTUARC badge. We want to be visible. We will be monitoring the 147.92/32 repeater at all times and talk-in will be on 145.67 Simplex.

If you have any questions on the technical side, please contact Dee, KA7NPN and any questions about shift times call Randy, K27T.

One word of caution, although it was extremely hot during the day last year, it cooled down rapidly in the evening; so plan on bringing a sweater.

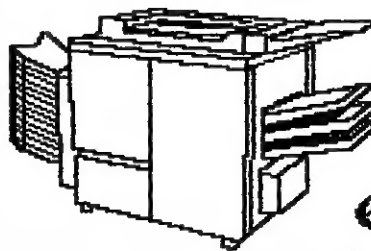
Looking forward to seeing you. We had a blast last year and this time it will be even better.

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HEARD AROUND THE CLUB

Congratulations to Cindy Palmrose, wife of member David, W7FCA, who recently attained her Novice license with a call of KA7ZIJ. Cindy hopes to get her Tech soon and join the club in the New Year.

August certainly was vacation month. Those we know of - Greg, W7AGQ to Expo. Bob, KB7CC with Jo, KA7MIE also to Expo. Cary, KA7KDB and Fran, N1TE back from a great trip to Glacier National Park. Dee, KA7NPN and family went hiking and camping around the Sisters. A real hazy environment but no sight of forest fires.

A number of members on the move, including Marge Smothers, WA6ZPX who moved to Centerville, Ohio and new member Clarence Peckham, NT7U relocating to Stoughton, Wisconsin. Life Member Bob Dunshee, W7LYK moved to somewhere in California. Best of luck to you folks in your new endeavors; please keep in touch!

A reminder, OTUARC's annual Two Meter Happy Hour contest is coming up soon - October 9. Details to follow.

Welcome to our newest (and youngest) member, Estella Morgan, KA7ZLZ, niece of Roger and Marvel Noyes.

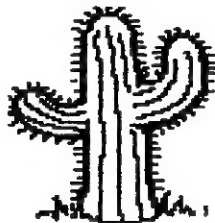
WAS THAT YOUR FACE WE SAW DEPARTMENT: Roger, K7RXU on the front page of the Sunday, August 24 edition of the Oregonian; reporting on the Black Powder Shoot in Vernonia. Jeff, K7JF on KGW-TV's "On the Spot" game show Wednesday, September 10. Any others we missed?

A big sorry to Bill, N7DJW for not including him in our story last month about Field Day. Bill was a major force behind our Sunday morning breakfast, having put up alot of the \$\$\$ besides working his tail off. Same for Jack, KA7HOJ. We're really sorry for the oversight guys.

Hear big plans are in the works by the Social Committee for our annual OTUARC campout in Vernonia. Details appear elsewhere in this issue.

DATELINE LAKE JACKSON, TEXAS

The N4BOS, KD7LA, W5SYO and NB7W Splinter Group once again struck fear into the hearts of the world-wide amateur community by causing the 2d annual Oregon & Texas Free-Fool-All from this location. With an antique Onan 3.5 KW generator humming on the potentially flooded driveway (having prepared for a hurricane) an IC-730 cause electrons to surge to and from a TH6DXX temporarily placed in its appointed spot at 70+ feet. The intrepid operators proceeded to BLOW THE DOORS OFF ALL VISIBLE COMPETITION by amassing the astounding score of 1,576 hard earned points (not QSOs); all accomplished with the aid of four hours sleep.



Although the score this year was only twice that of last year (and exceeded the scores of many multi-transmitter groups by several orders of magnitude) the group was heard to be planning an assault on an Oregon mountain within 364 days.

More to follow..... N4BOS



NEWCOMER TO FIELD DAY

BY JOAN, KA7VXC

My nephew, Bryan McUay accompanied Rick, KA50LH and myself to this year's Field Day events. His participation will earn him a Boy Scout merit badge.

Having been introduced to Mike Lynch helped Bryan to feel right at home. The two found much in common. Bryan helped when he could with setting up the antenna at the Novice/Technician station.

When the calls started coming in, Bryan listened as the operators worked the various stations; being somewhat familiar with Morse Code from a "50 in 1" electronics kit.

The Novice/Tech operators gave him a chance to send, however, Bryan wasn't quite ready for that. Bryan and Mike did visit the other Field Day stations, to get a feel for SSB and fast-speed CW operations.

After the contest was over, Bryan practiced on the Novice/Tech key; wanting to wait until the antenna was down and not on the air. Who said imitation wasn't the most sincere form of flattery?

With time and practice, Bryan could easily earn his Novice ticket; he is quite interested and truly enjoyed his weekend at the Maiken's farm.

FCC VE TESTING

NORTHWEST AMATEUR
RADIO COUNCIL



AMATEUR RADIO LICENSE
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TECHNICIAN THRU EXTRA

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SYLVANIA CAMPUS
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REGISTRATION INFO:

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2. ATTACH COPY OF PRESENT LICENSE
3. MAKE A CHECK OR MONEY ORDER FOR \$4.25 PAYABLE TO ARRL/VEC
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DEADLINES: REGISTRATIONS MUST BE RECEIVED 30 DAYS PRIOR TO TAKING THE EXAM. WALK-INS ALLOWED ONLY IF THERE IS AVAILABLE SPACE

MORE INFO: CALL RANDY AT 649-5066

CAMP OUT

BY PAUL, WB6SHR

Time to make plans for our annual Camp Out and Picnic to be held Sept. 27 and 28.



Again this year, we will visit Harold Maiken's farm in Vernonia. Head to Vernonia, turn left on Keasey Rock Creek Road (opposite the high school) and drive 6.3 miles. Mail box on right hand side shows "Maiken".

We'll have games for the kids, a bunny hunt, do a spot of fishing and try to talk Wes, K7WNG into catching some crawdads.

Potluck dinner will be around 5PM on Saturday, with the club furnishing coffee, pop and beer. Everyone responsible for all other meals.

Remember the Camp Out is later in the year than usual and weather could be a factor. Come prepared, with warm clothing and rain gear.

We'll have more discussion at the September meeting. Hope to see you.



ON THE AVERAGE

WHERE IN THE
WORLD IS
HU3SJ?

BY MIKE,
KE7HS

The world of DX is a fascinating one to say the least. Amateur Radio is the only hobby that I know of that allows instantaneous (almost) access to people in foreign lands that only a lucky few of us would have a chance to visit in person. The added bonus is the fact that they are also hams and therein lies the bug that could bite you.

When I got my Novice ticket I had no gear whatsoever so what did I care about DX? You can't even hear a foreign station, let alone work them, unless you have SSB and 2KW, right? ... WRONG! My "elmer" told me that Japan was as common as daisies in the field and Australia was easy. Surrre they are. My first ham station was a vertical and a Heath RP CW rig. I heard and worked a few states in the first weeks as a new ham, but didn't hear any calls without an N, K or W. And then it happened; JG2XUV calling CQ with noone coming back to him. I was almost petrified, but with a shakey hand I pounded out "JG2XUV de



KATQAP AR." Oh no, he heard me and he's coming back with "THX fer call, UR RST ..." and so it went. My first DX contact! No ham ever forgets that one. That lead to an

ongoing correspondence and exchange of Christmas gifts with Masami Goto of Tokyo over the past two years.

If the DX bug sticks his fangs in you, you have a whole new facet of amateur radio to explore. DX can take many forms. You can check into a DX net which is generally run in a "list operation." Here, the net control asks you (when it's your turn on the list) to call those DX stations who have checked in. QST lists special events that may include DX stations. There is the casual DX contact and then there is the rare DX station that inevitably leads to the dreaded pile-up. Pile-ups can be overcome, but alot of it depends on your patience; whether the DX station is operating "split" and, depending on propagation, the amount of power you are running. I should say that I am now referring to SSB operation, although my first 14 or 15 DX QSOs were on the

VICTORY!

Novice bands. The best way to learn about how to contact one of those stations during a pile-up, or any other time for that matter, is to LISTEN. After you listen, LISTEN some more and you'll see a pattern develop. Some may disagree, but the best tip I could give to the average operator is LISTEN because you learn so much.



I guess the one thing that sticks out in my mind about the little DX that I have done is that each contact, however brief, establishes a real and genuine camaraderie in only a matter of a few seconds; over thousands of miles with no borders or ideological differences. The final ribbon on the package is, of course, the QSL card with that strange call printed on it. DX QSL'ing is another story which I will cover in a future installment.

For those of you who may wish to try DX for the first time, I would suggest the IARS DX Net which meets daily on 14.243 MHz at 2330 UTC. This is a list



operation that is open to all hams; with IARS members getting the first call. There's lots of

time and all check-ins will be given the chance to contact DX onboard; a very nice way to get into DX'ing.

There's far more to DX than I could ever hope to cover. It's there, it's different and it's fun. Where in the world is HU3SJ? He's in Vatican City; his name is Father Pino and he is one of only three hams in that "country." I'm proud to have his QSL card sitting on my wall. I'm sure he has some left, should you choose to seek them.

I'll delve into DX QSL'ing on the next go 'round. Until that time arrives, I remain ... on the average. 73.



USED CARS LAND WHISKEY MANURE NAILS
FLY SWATTERS RACING FORMS BONGOS

NEIL E. MCKIE, WA6KLA

AKC APPROVED

WARS FOUGHT

REVOLUTIONS STARTED

ASSASSINATIONS PLOTTED

GOVERNMENTS RUN

UPRISINGS QUELLED

TIGERS TAMED

BARS EMPTIED

COMPUTERS VERIFIED

ORGIES ORGANIZED

SO HOW DO YOU PRINT THE NEWSLETTER?

BY JEFF, K7JF AND UAN, KE7BB



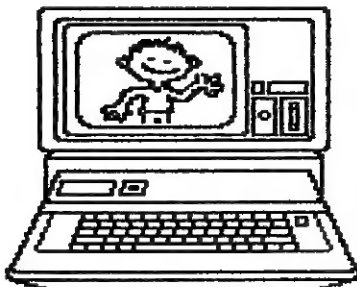
A number of members have asked us over the past couple of months how we put the Newsletter together. After actually looking at

the process, we began wondering ourselves! Uan travelled to Lorna's house one evening for a "hands on" look at the system. This article examines how we put "all the news that's fit to print" into this monthly publication; and in so doing make it entertaining without taking up all of our working hours.

The first step in the process comes from you, our members and contributors. It is your news, opinions, wit and trivia which starts the vinegar flowing. We really appreciate your material in typewritten form; word processed documents are NOT necessary. We will accept your copy if handwritten, but be prepared to translate! Please send your "copy" to our post office box.

The material is then reviewed by our editorial staff (Lorna and Jeff) and "graded" for suitability. So far no article has been rejected, nor received a grade less than a "C."

Let's digress a bit. When we took over the production of the Newsletter, we had a goal of computerizing the entire operation (as we look backwards, for better or worse.) Not too



many "desktop" publishing" programs had been written for the Apple, however, Springboard Software had just come out with its "Newsroom" program, so we jumped in both feet first. The program is extremely versatile as will be seen shortly.

Once an article is accepted, it is input into the Newsroom program. The software does just about everything except type for us. Words are formatted into spaces about 2x4 inches, called "panels." Each page contains eight panels, which can be manipulated to account for banners (page headings such as the picture atop the "Classified" section.) Along with word spacing, the program automatically adjusts for pictures. Pages can be composed over the

telephone lines, and sent between terminals. Lorna, Jeff, Dee, KA7NPN, Bud, KC7PS and Mike, KE7HS all have telephone "modems" to expedite composition of their articles and the layout of the paper.

The pictures seen throughout the Newsletter come from a directory of graphics built into the program. The basic catalog has about 75 designs; additional disks can be purchased to extend the capability to 300 pictures. We have located a new program which converts "Print Shop" (another program) graphics into Newsroom format. Our limit will exceed 700 photos. Custom designs can be created using an editor inside the Newsroom; for example the Oregon shape in our front page banner. We are striving, with great difficulty to reproduce the OTUARC "mascot" as seen in our QSLs and previous newsletter.

Consider the number of articles which make up the Newsletter;

all of varying length. With eight panels allowed per page, the next task is to match up the pieces to fit a complete page. Included in the chore is the proper fitting of pictures to text. For example, the size of the picture above can be varied, thereby changing the layout of the words in a panel. A real art, indeed!



Once the pieces have been put together, a sample printout of each page is run. This helps us verify the layout, correct spelling, insert missing words and generally touch up the completed page.

If at all possible, we reserve a couple of panels before "putting the letter to rest," to allow for any last-minute news or articles which happen to come in late. Our article deadline of the 20th of each month is working well so far, however, we do have a couple of latecomers which do make it in occasionally.

The completed pages are pasted to 11x17 inch sheets for processing by the printer. Camera photos are last to be applied, thereby assuring us a better appearance once copied.



After copying, the pages are collated and folded into the final product. Stamping, stapling and mailing complete the job.

Well, there you have it in a nutshell. From a box of jigsaw puzzle pieces to a final product; (so far) produced within budget, on time and to everyone's (?) satisfaction. New formats are continually being reviewed. When the computer world comes out with a "better mousetrap," you'll be the first to see it here.



SPOTLIGHT ON A HAM

BY LORNA, KA7RFD

Congratulations
to Randy, KZ7T
on his recent

appointment as American Radio Relay
League Oregon Assistant Section
Manager. Randy will be helping SM
Bill Shrader, W7QMU with various jobs.

Randy earned his Novice ticket in
April, 1982; soon had his Technician,
then received his Advanced license in
August of the same year. His call of
KC7YS, with the nickname of "Yellow
Snow" inspired him to advance to his
Extra License and a change of call in
June, 1983.

Since receiving his ham ticket, Randy
has been prominent in our club, as
Club Treasurer for the past two
years, Treasurer of Sea-Pac this past
year as well as being in charge of
exhibitors. In January, 1984, Randy
was appointed District Emergency
Coordinator for Northern Oregon. In
addition, Randy has been a driving
force in leading the very effective
Public Service program which sets
TUARC apart from the rest.

Randy's first exposure to ham radio
came from his Dad, W7GUT, who
operated in the Spokane area, where
Randy grew up. He has many tales
to tell of contacting his Dad, via a
friendly radio operator, while
stationed with the Air Force in
Alaska during the Korean War.

Apart from limited activity on Two
Meters and occasionally checking into
the Oregon ARES net, Randy is not
frequently on the air; preferring
the "tinkering" side of ham radio and
the construction of bigger and
better antennas. And, dare I say
this, has only made one contact on CW
to-date.

Married to the author of this column,



Randy
Stimson
KZ7T

Randy has two daughters and a son
from a previous marriage and seven
beautiful grand children; five of
whom live in Spokane. A good excuse
to go up there for Holidays.

Educated at Gonzaga University,
Randy has spent his entire working
life in some aspect of the tire shop
equipment industry, either selling or
servicing. No, he can't get you a good
deal on tires -- it's the heavy duty
equipment he's involved with.

Other hobbies include hiking,
backpacking, photography and
travel. The highlight so far in that
direction has been a six-week trip to
Australia, with another planned
when time and money permit.

HAM CLASSES

Classes are scheduled to start
Monday, September 22 at 7:00 PM at
Cedar Park Junior High School,
Parkway Street in Beaverton (off
Cedar Hills Boulevard).

Instructor for the Novice class is
Randy, KA7HJT (649-5066) and the
teacher of the Tech/General class is
Bert, W7JWG. Cost for 10 weeks is \$29
with registration accepted at the
first session.

If there is enough interest there will
be an Advanced/Extra class in either
the Winter or Spring terms. However,
an instructor is needed as Bob, KB7CC
will no longer be teaching this class.

If you have any questions regarding
the classes or if you would like to
volunteer to teach the Advanced
class, please call Randy at the
number given above.

SEPTEMBER MEETING

No program this month. A purely
social evening when you have the
chance to ask questions and have an
open discussion.

A great success when our speaker
failed to show two months ago. Come
mix, mingle and meet other members.

ANTRONICS SWAP MEET

The last Swap Meet and Flea Market
was such a success, apart from the
heat, another is planned. No charge
but please bring your own tables.
Plenty of room for everyone - we
have one and a half acres!

DATE: Saturday, September 20

TIME: 10:00AM to 6:00PM

PLACE: 18955 SW Blanton, Aloha, OR
(Antronic's Store location)

PLEASE PASS THE WORD AROUND!

STANLEY HAMM-TOWERS

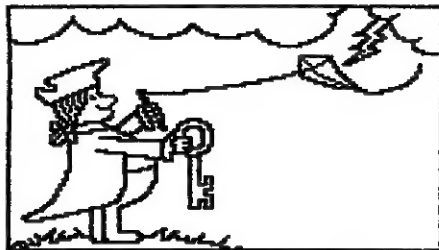
PART II

BY STAN, W7NH

Did you know that normally you can't lower a crank-up tower in the wind? That's right. With a wind of just a few MPH, there is enough side force on the tower to make it bind and it won't telescope down. That's bad news for those who plan to leave their towers up except when the wind blows.

I said "normally" you can't lower a crank-up in a wind. It just so happens that there are a few towers around with a positive pull-down cable that actually pulls the tower down forcing it to telescope, even in a wind. Towers so equipped are very few, however, and if the tower manufacturer isn't shouting about it, I'll bet it doesn't have a positive pull-down cable.

There are many cases on record of unwary hams attempting to lower their towers in a wind. What usually happens is that the tower binds and the cable goes slack as the winch is unwound. When the wind lets up for just a half second, the tower



drops and stops suddenly when it runs out of slack cable. What happens next varies with the particular situation.

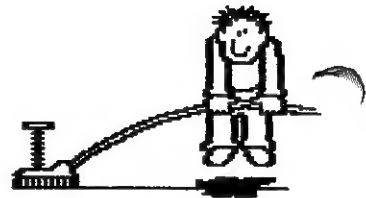
If the tower drops and inch or two, probably nothing happens except it makes nasty noises and scares the hell out of you! If, however, it drops several feet (yes, you can put a slack loop in the cable several feet long without noticing it in the winch), the cable could actually snap and the whole tower will telescope at full speed until it hits the ground. The antennas probably won't stop when the tower does and you'll wish you were wearing a hardhat. If all you lose is a tower and antennas, you're lucky. Several have lost fingers and arms... some have even their lives.

One of the most desired towers to have is the motorized crank-up. Notice I said desired... not safest, not cheapest, not "best." With a motor, most think surely the tower will be left down except when in use. At least it will be safer in case the wind comes up. At this point I must tell you another true story.



This ham friend of mine had a 71 foot motorized crank-up with stacked monobanders on 10, 15 and 20. That's way more antenna than the tower

was designed for but, what the heck, it's motorized and it will be down all the time except on calm days when he wants to transmit. It worked that way, too, until one day when my friend decided that waiting five minutes for the motor to crank up the tower was too long. The solution was to change to twice as large a motor and reduce crank-up time to about two minutes. That worked well. So well, in fact, that the tower would often be raised and lowered several times in a single day. Unfortunately, my friend overlooked a few important details.



He did not grease the cable often and he didn't realize that the steel cable was wearing away the sides of the grooves that kept it centered in the pulleys which were made of soft aluminum. Eventually, the cable slipped out of the groove and bound up around the pulley shaft.

My friend was not aware of this since the tower winch was remotely controlled from the shack in his basement. Even so, this should not present a problem because if the cable jams, it's designed to stall the motor and blow a breaker. This did not happen, however, because the motor was two-times normal size and the cable broke instead.

Fortunately, the tower was only halfway up, so the disaster was not as bad as it might have been. Only a

\$5,000 tower was destroyed. The antennas survived, and no one was injured. True story.



Stay tuned for Part III

TRAILER UPDATE

BY DEE, KA7NPN

Well, it's near the end of Summer and things are getting back to where people-time is becoming more available.

Before Beaverton Days, the trailer will take on a new look. We will have put in a large sliding window to allow for public viewing; inside-outside conversations will be easier, without gaining entrance to the trailer.

Coaxial cable distributions and D.C. power will have been completed. We will follow this up with insulation and wall paneling prior to installing cabinetry. Someone approached me during the Spring about getting the trailer painted. I have misplaced the offer. If still available, please contact me at telephone 646-4580.

JAMIE'S JARGON

By Jamie, N7FIU

Thanks to Neil, WA6KLA and "Electronic Products" magazine for contributing to this month's column.



How well do you know transformers? Good enough - or...that's one of the things they asked about on my Ham ticket test - or...transformer...what?

1. A transformer should only be used at (a) it's rated voltage (b) it's rated power level (c) it's rated frequency

(d) it's rated ambient temperature (e) all of the above (f) none of the above?

2. Transformers always have a magnetic core material. (True/false)

3. Magnetic core materials used in transformers include (a) silicon iron (b) torodial (c) ferrite (d) permalloy (e) E-core?

4. The rating of a transformer supplying a rectifier is the same as the dc power required from the power supply. (True/false)

5. Small transformers are generally as efficient as large transformers. (True/false)

6. Metallic cores of transformers are laminated to (a) make assembly easier (b) reduce hysteresis (c) reduce eddy currents (d) reduce magnetic reluctance?

7. A transformer is commonly used to match source to load in wideband applications. Under those circumstances, the load receives (a) most of the source's power (b) a minimum of the source's power (c) an amount of the source's power that depends on the turns ratio (d) about half the source's power, (e) .707 times the load's power?

And for the autopatch guys...

8. The power levels in a public telephone system at the receiver are (a) 1 to 10W (b) 0.1 to 1W (c) 0 dbm (d) 45 to 75+ dbm?

ANSWERS

1. (f) None of these. A transformer is capable of being used at almost any power level, at least up to its maximum rating. The input voltage, frequency and temperature range depend on the particular transformer and can also usually be varied widely.

2. False. Some transformers are wound with air-core coils and have no magnetic core material. Use of any of these transformers are usually in VHF-UHF frequencies.

3. (a), (c), (d) are all core materials.

(b) and (e) are transformer core structures.

4. False. The ac rating of a transformer is always the dc power delivered after rectification. An approximate rule of thumb is that the ac rating is roughly twice that of the dc output.

5. False. Small transformers with a rating of 10 to 50W can have as low as 70% efficiency. Large transformers with ratings of 100W and higher can be up to 90-98% efficiency. (Note: assuming 60-hz and temp rise of 40 degrees C.)

6. (c) Metallic cores are laminated to reduce eddy-current losses. Laminated surfaces are covered with a highly resistive finish so that large circulating eddy currents are blocked, limiting that built-up current to just that lamination.

7. (d) The source is matched to the load with wideband coupling transformers primarily to prevent reflections from the transmission lines and to establish optimum damping conditions.

Under matched conditions, the source "sees" a load resistance that equals itself. Therefore, in the ideal case of a lossless transformer, half of the generated power is dissipated in the source and the other half is delivered to the load. (Note: When the source and load are matched, the maximum power is delivered to the load.)

Now for those of you who have tele's hooked to your Poortronics ham gear via expensive hardware:

8. (d) In the receive condition at the end of a long line, the power level can be as low as -45 dbm; +7 dbm is the maximum allowed transmission level. (Note for reference, -45 dbm is what you can hear out of those 8-bit (byte) K-Mart phones. On a good day...)

Asst. Editor's note: Jamie's next article will translate all of the above into easy-to-understand language for our newcomers.

HELP WANTED

The traditional monthly social event of preparing the Newsletter for mailing has gone by the wayside the past few months.

Any volunteers out there who would lead this party, which would normally be the Wednesday, Thursday or Friday before the monthly meeting (depending on which day we get the finished product back from the printer) would be appreciated.

Please call us as soon as possible... thanks in advance. -- KA7RFD/K7JF





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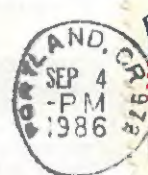
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Address Correction Requested



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